

CLAIM AMENDMENTS

1 1. (currently amended) A cutter $[(1)]$ of a rotary
2 pump for liquids containing solid materials, the cutter having a
3 rotating blade $[(2)]$ having at least one opening $[(5)]$ through
4 which the liquid flows that forms a cutting edge and the blade is
5 directed with one end face $[(8)]$ toward a nonrotating counter
6 surface $[(9)]$ that also has at least one opening $[(12)]$ through
7 which the liquid flows, characterized in that the end face $[(8)]$
8 of the blade $[(2)]$ that directed toward the counter surface
9 $[(9)]$ is convex, whereas the counter surface $[(9)]$ is
10 complementarily concave.

1 2. (currently amended) The cutter according to claim 1,
2 characterized in that the curvature of the blade $[(2)]$ forms a
3 spherical cap $[(dome)]$.

1 3. (currently amended) The cutter according to claim 2,
2 characterized in that an end of a radius $[(R)]$ of the spherical
3 cap is situated on an axis of the pump shaft at the same level as a
4 shaft bearing that is near the pump impeller.

1 4. (currently amended) The cutter according to ~~one of~~
2 ~~the preceding claims~~ claim 1 , characterized in that the rotating
3 blade $[(2)]$ is attached to the pump impeller at an end that is
4 directed away from the counter surface $[(9)]$.

1 5. (currently amended) The cutter according to ~~one of~~
2 ~~the preceding claims~~ claim 1, characterized in that the counter
3 surface ~~[(9)]~~ is formed by a nonrotating element ~~[(10)]~~ that
4 can be fixed in or on the pump housing or that is formed by the
5 pump housing.

1 6. (currently amended) The cutter according to ~~one of~~
2 ~~the preceding claims~~ claim 1, characterized in that the flow-
3 through openings ~~[(12)]~~ narrow in a flow direction and thus flare
4 in a downstream direction.

1 7. (currently amended) The cutter according to claim 5
2 ~~[[or 6]]~~, characterized in that the nonrotating element ~~[(10)]~~ is
3 mounted in an annular flange ~~[(11)]~~ that can be attached in or on
4 the pump housing.

1 8. (currently amended) The cutter according to ~~one of~~
2 ~~the preceding claims~~ claim 1, characterized in that the rotating
3 blade ~~[(2)]~~ has two to four, preferably three sector-shaped
4 openings ~~[(5)]~~.

1 9. (currently amended) The cutter according to ~~one of~~
2 ~~the preceding claims~~ claim 1, characterized in that the nonrotating
3 element ~~[(10)]~~ has four to six, preferably five sector-shaped
4 openings ~~[(12)]~~.

1 10. (currently amended) The cutter according to ~~one of~~
2 ~~the preceding claims~~ claim 1, characterized in that the cutting
3 edges ~~[(7)]~~ of the in particular radial webs ~~[(6)]~~ are formed
4 or supported between the openings ~~[(5)]~~ of the cutter ~~[(2)]~~.

1 11. (currently amended) The cutter according to ~~one of~~
2 ~~the preceding claims~~ claim 1, characterized in that it has an inlet
3 tip ~~[(13)]~~ between the sector-shaped openings ~~[(12)]~~ of the
4 nonrotating element.

1 12. (currently amended) The cutter according to ~~one of~~
2 ~~the preceding claims~~ claim 1, characterized in that the rotating
3 blade ~~[(2)]~~ has the function of a further axial impeller due to
4 the design of the intake ports ~~[(5)]~~ that extend at an angle
5 relative to the rotational direction.